



DEPARTMENT OF INFORMATION
AND COMMUNICATION
ENGINEERING

TP 14

PHP Laravel

INTERNET
PROGRAMMING

Submitted to: lecturer HOK TIN

e20190146

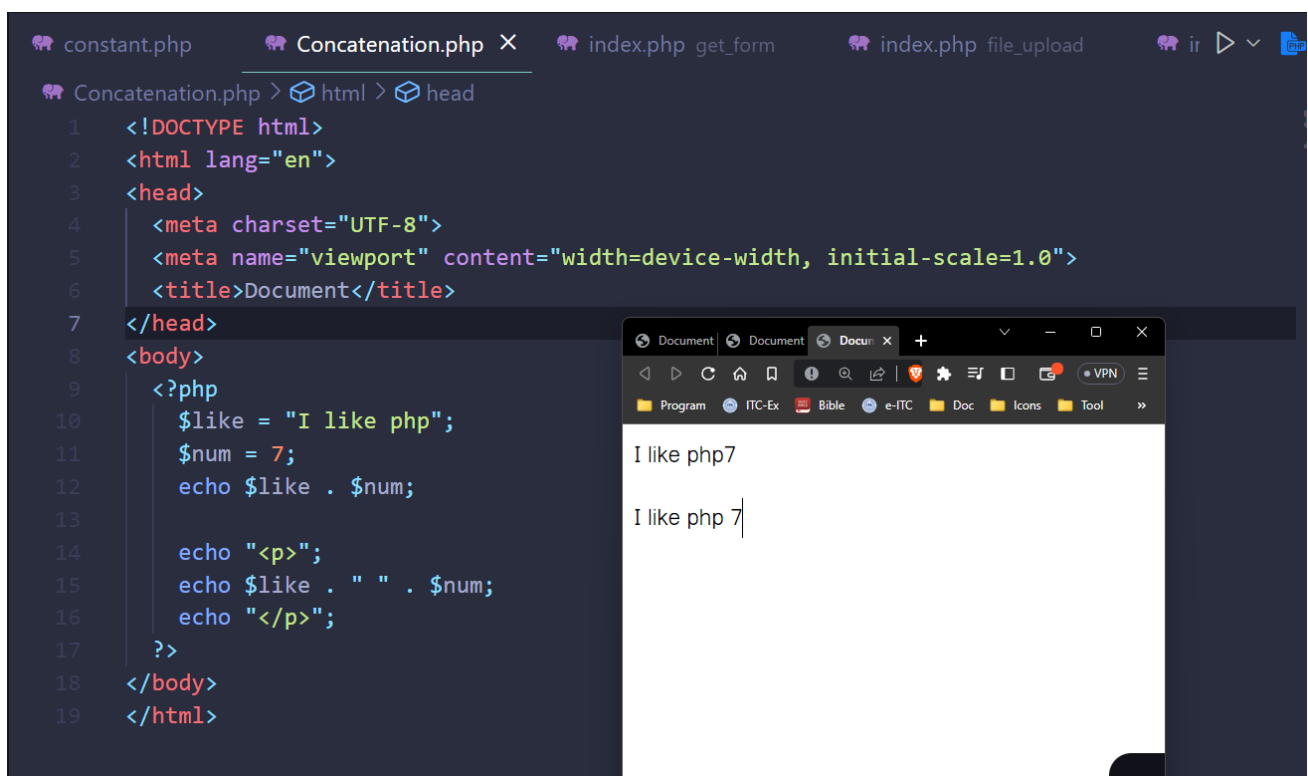
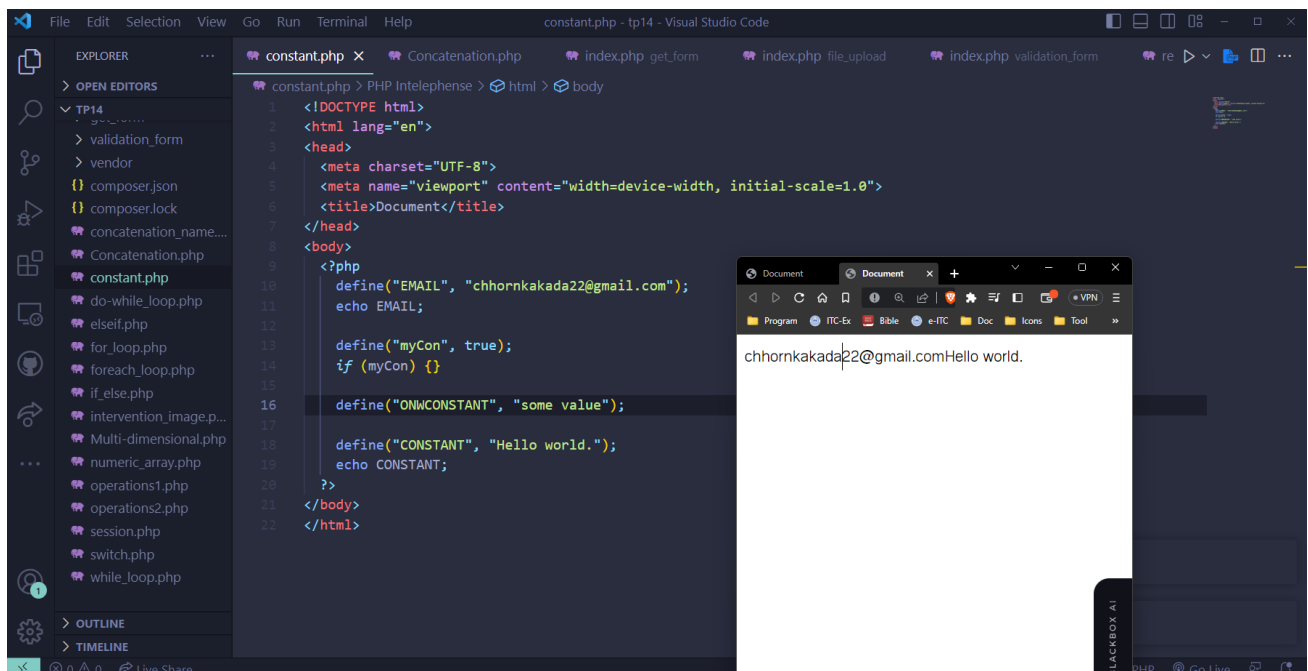
Chhorn Kakada

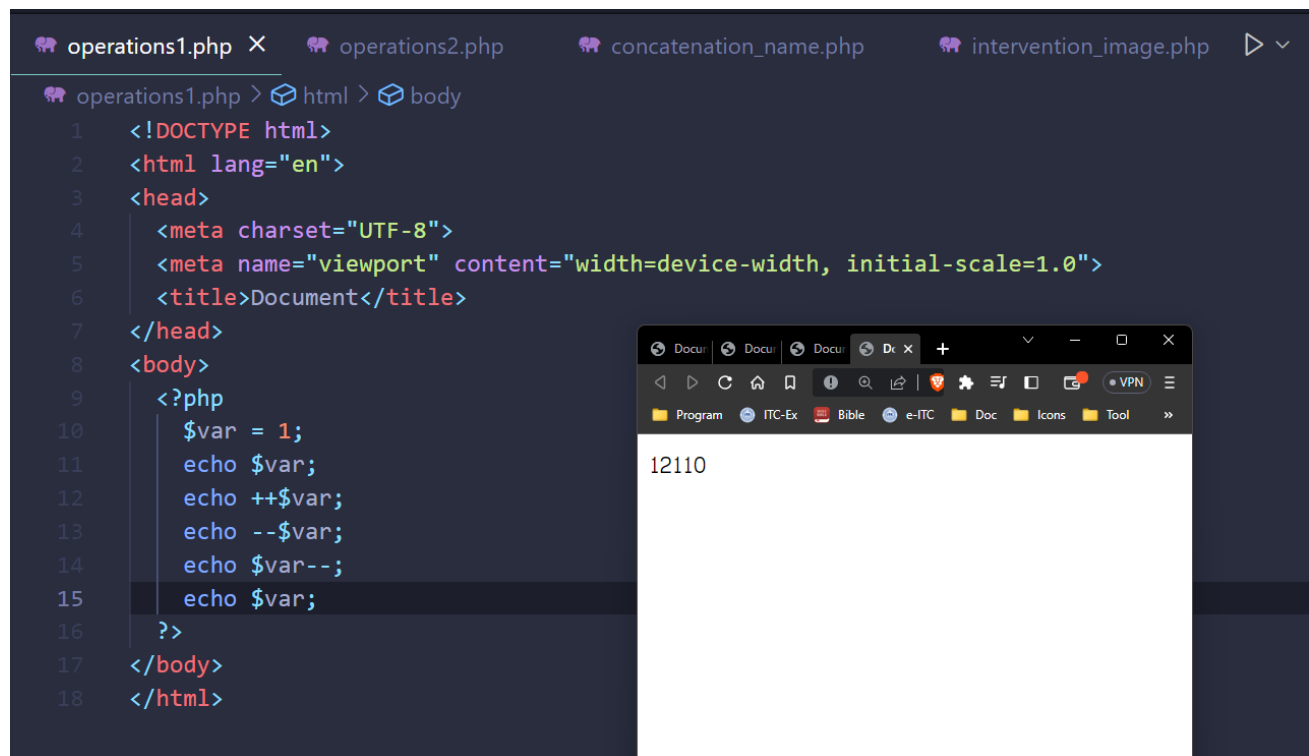
GIC-A

Tue. 11. July. 2023. 4:10Pm

Github Account:

<https://github.com/ChhornKakada/Intenet Programming/tree/tp14>

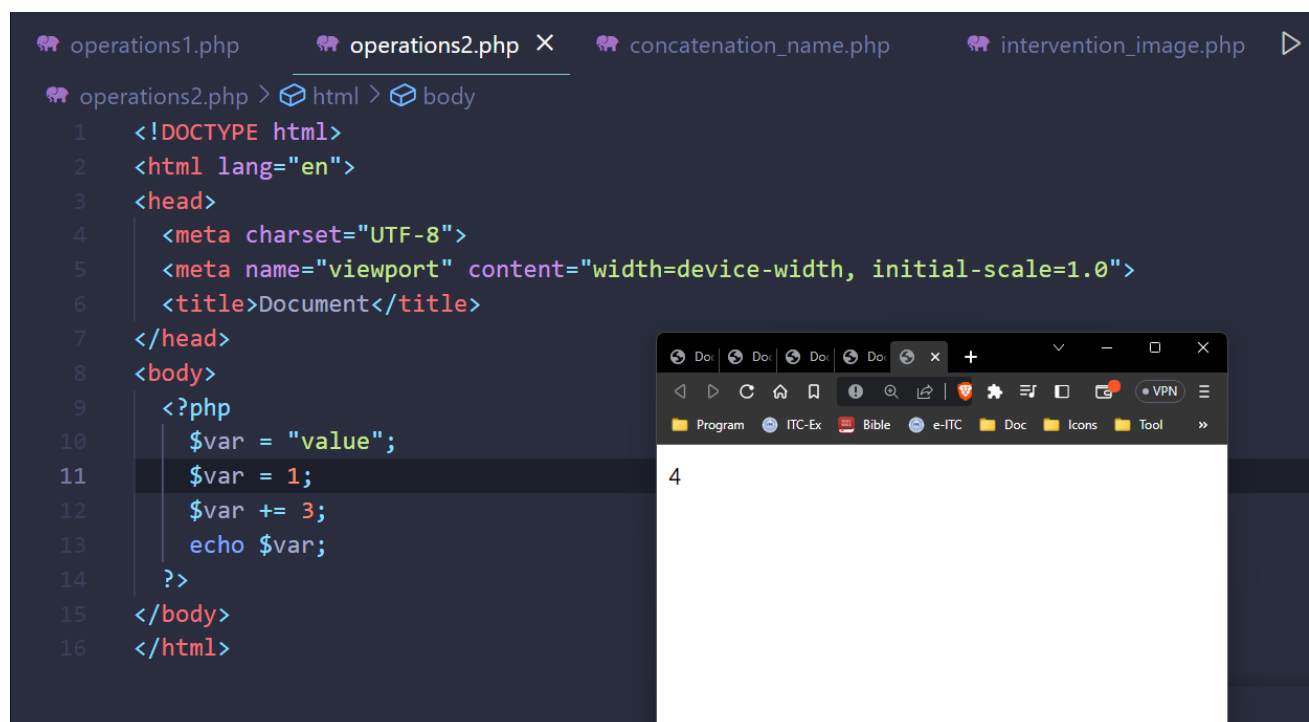




The screenshot shows a code editor with four tabs: operations1.php, operations2.php, concatenation_name.php, and intervention_image.php. The active tab is operations1.php, which contains the following PHP code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     $var = 1;
11     echo $var;
12     echo ++$var;
13     echo --$var;
14     echo $var--;
15     echo $var;
16   ?>
17 </body>
18 </html>
```

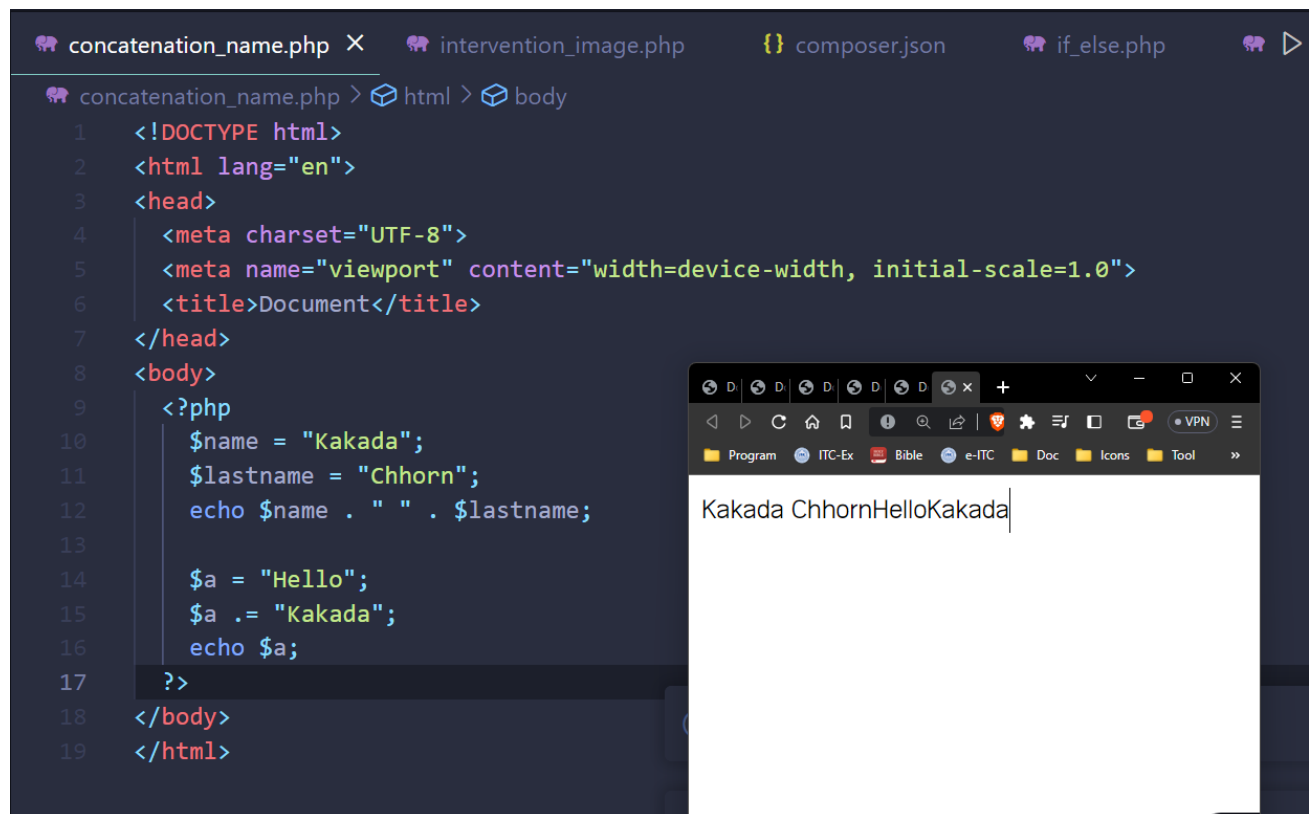
To the right of the code editor is a browser window displaying the output of the PHP script, which is the number 12110.



The screenshot shows a code editor with four tabs: operations1.php, operations2.php, concatenation_name.php, and intervention_image.php. The active tab is operations2.php, which contains the following PHP code:

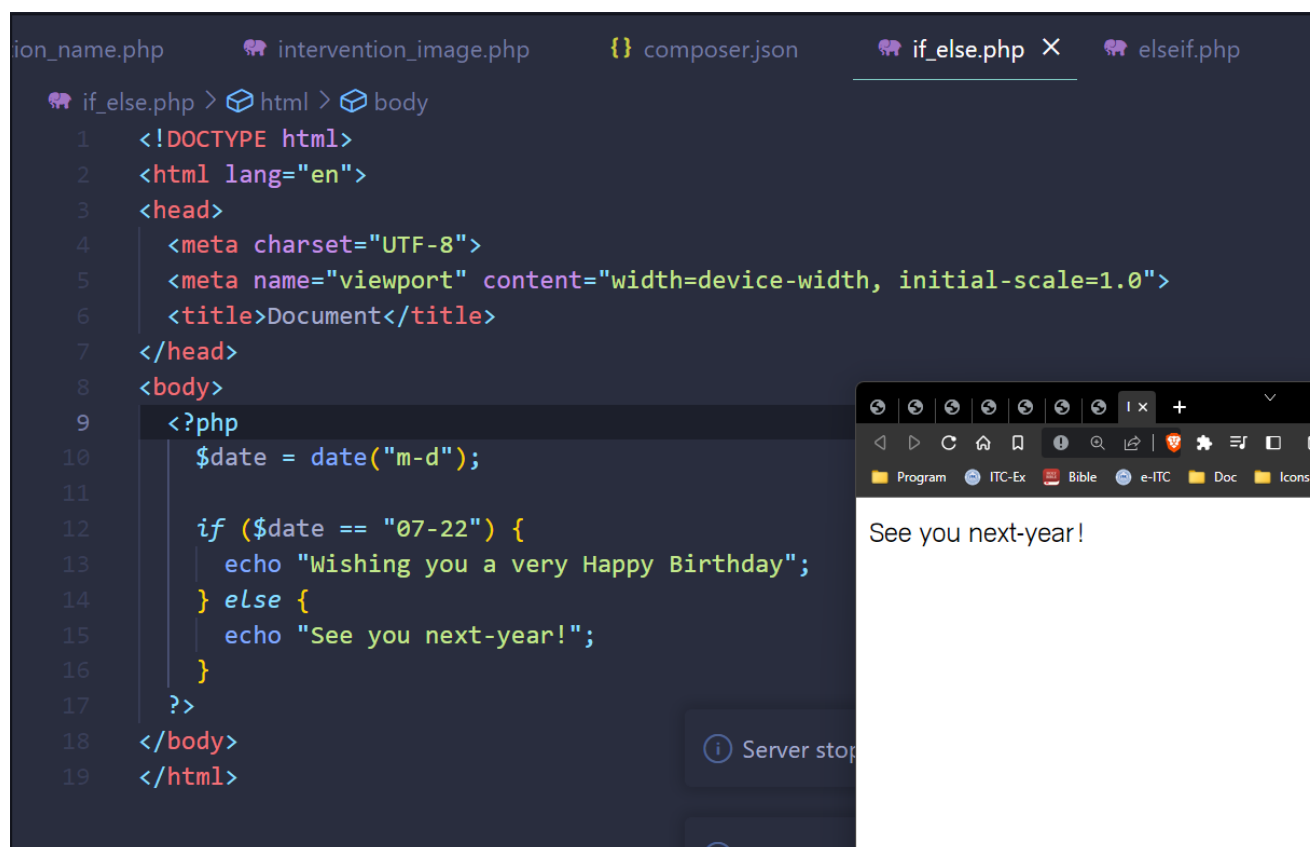
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     $var = "value";
11     $var = 1;
12     $var += 3;
13     echo $var;
14   ?>
15 </body>
16 </html>
```

To the right of the code editor is a browser window displaying the output of the PHP script, which is the number 4.



```
concatenation_name.php X intervention_image.php {} composer.json if_else.php ▶
concatenation_name.php > html > body
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     $name = "Kakada";
11     $lastname = "Chhorn";
12     echo $name . " " . $lastname;
13
14     $a = "Hello";
15     $a .= "Kakada";
16     echo $a;
17   ?>
18 </body>
19 </html>
```

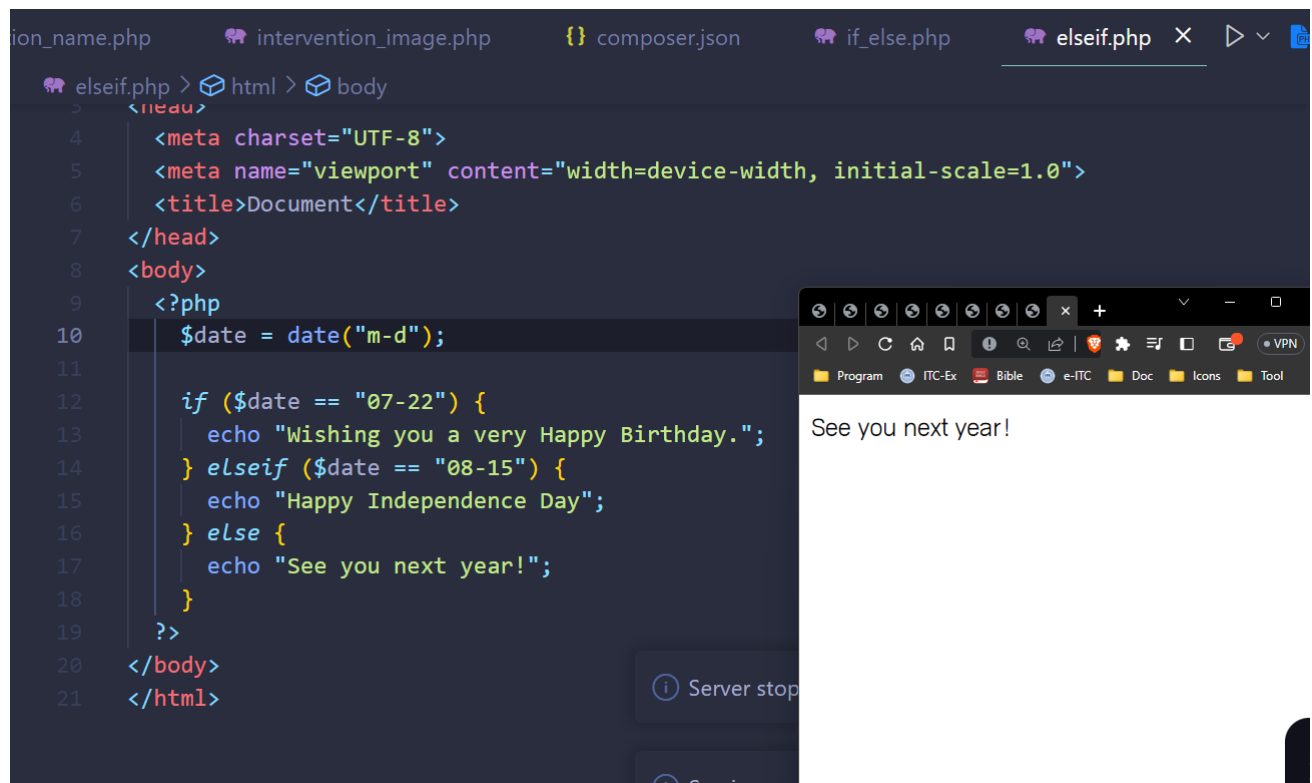
Kakada ChhornHelloKakada



```
ion_name.php intervention_image.php {} composer.json if_else.php X elseif.php
if_else.php > html > body
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     $date = date("m-d");
11
12     if ($date == "07-22") {
13       echo "Wishing you a very Happy Birthday";
14     } else {
15       echo "See you next-year!";
16     }
17   ?>
18 </body>
19 </html>
```

See you next-year!

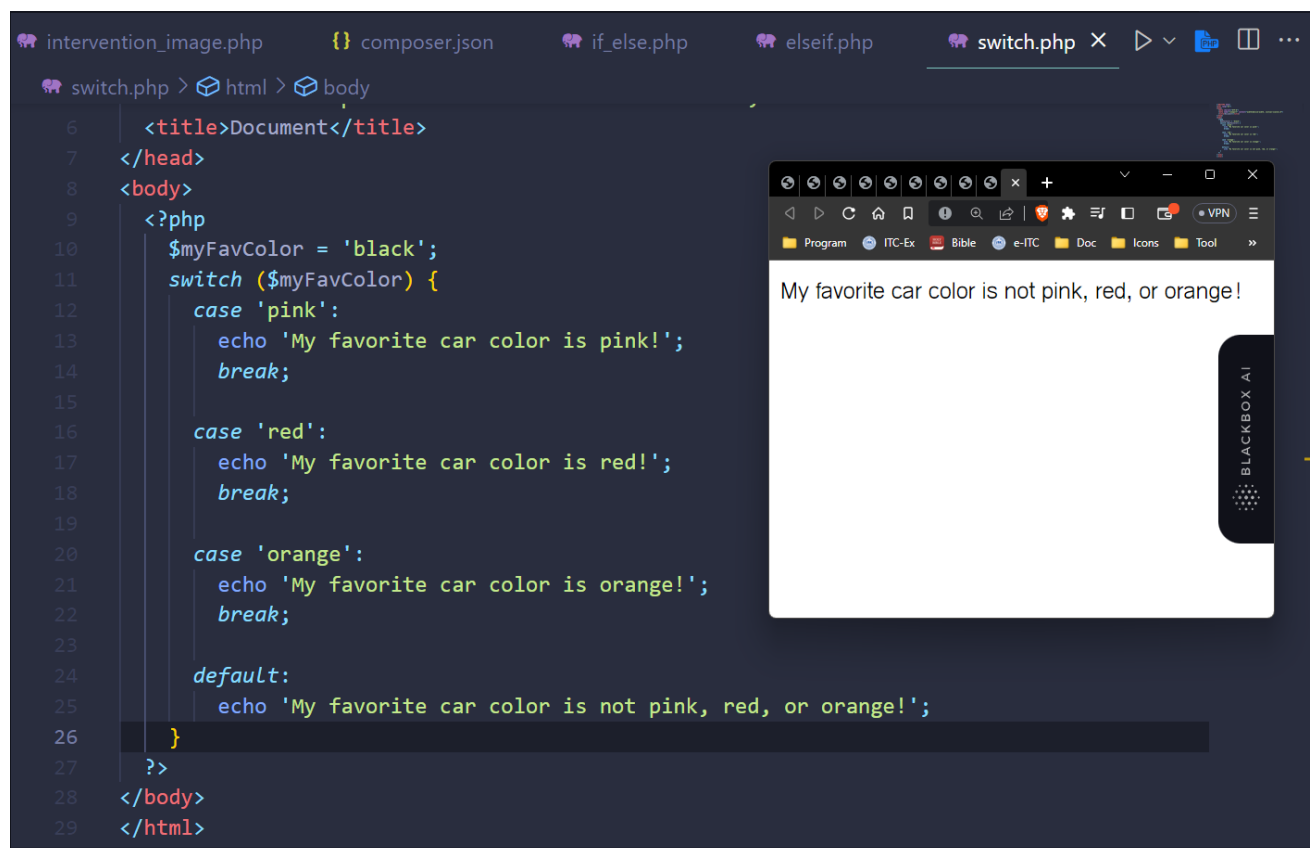
Server stop



The screenshot shows the VS Code editor with the file `elseif.php` open. The code is as follows:

```
1 <?php
2
3 <html>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Document</title>
7 </head>
8 <body>
9 <?php
10     $date = date("m-d");
11
12     if ($date == "07-22") {
13         echo "Wishing you a very Happy Birthday.";
14     } elseif ($date == "08-15") {
15         echo "Happy Independence Day";
16     } else {
17         echo "See you next year!";
18     }
19 ?>
20 </body>
21 </html>
```

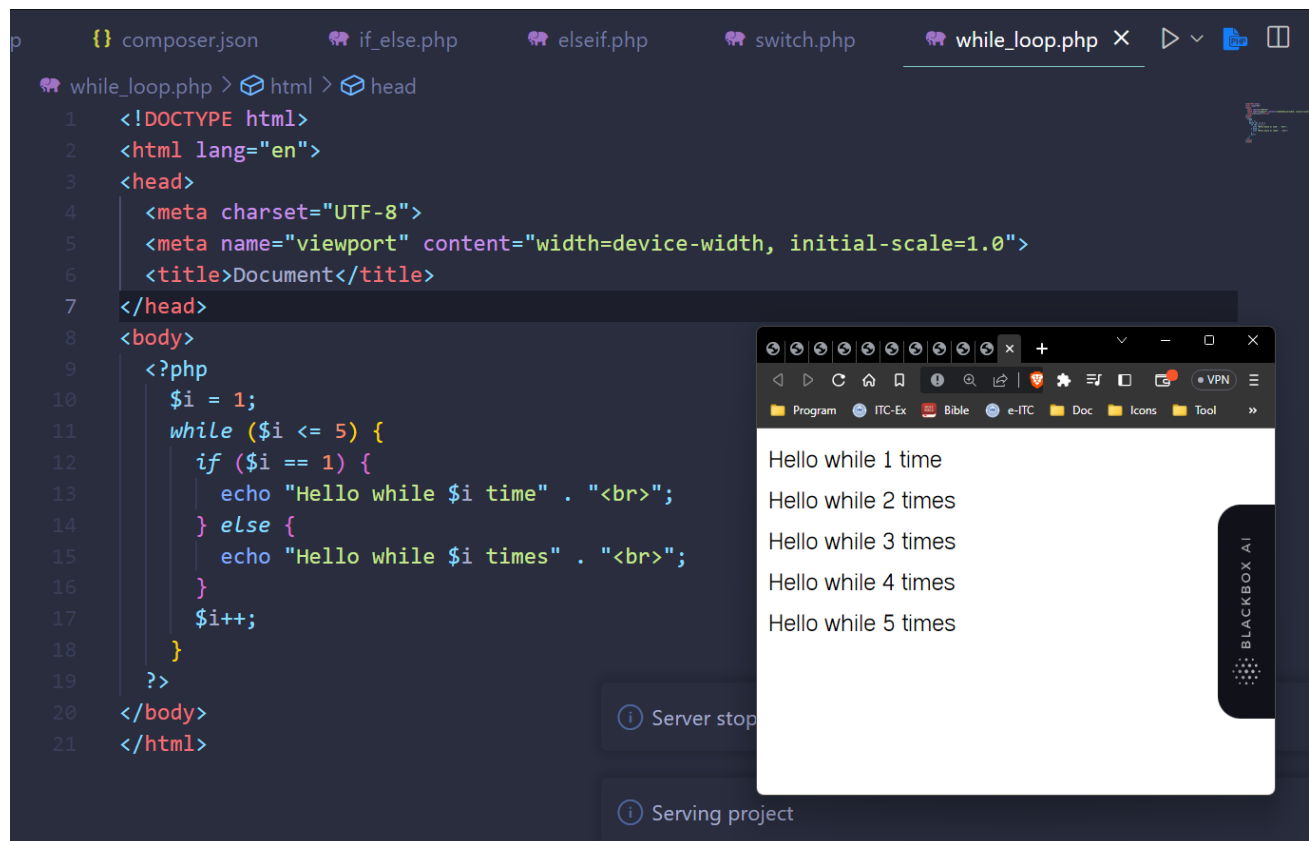
The browser preview on the right shows the output: "See you next year!".



The screenshot shows the VS Code editor with the file `switch.php` open. The code is as follows:

```
6 <title>Document</title>
7 </head>
8 <body>
9 <?php
10     $myFavColor = 'black';
11     switch ($myFavColor) {
12         case 'pink':
13             echo 'My favorite car color is pink!';
14             break;
15
16         case 'red':
17             echo 'My favorite car color is red!';
18             break;
19
20         case 'orange':
21             echo 'My favorite car color is orange!';
22             break;
23
24         default:
25             echo 'My favorite car color is not pink, red, or orange!';
26     }
27 ?>
28 </body>
29 </html>
```

The browser preview on the right shows the output: "My favorite car color is not pink, red, or orange!".

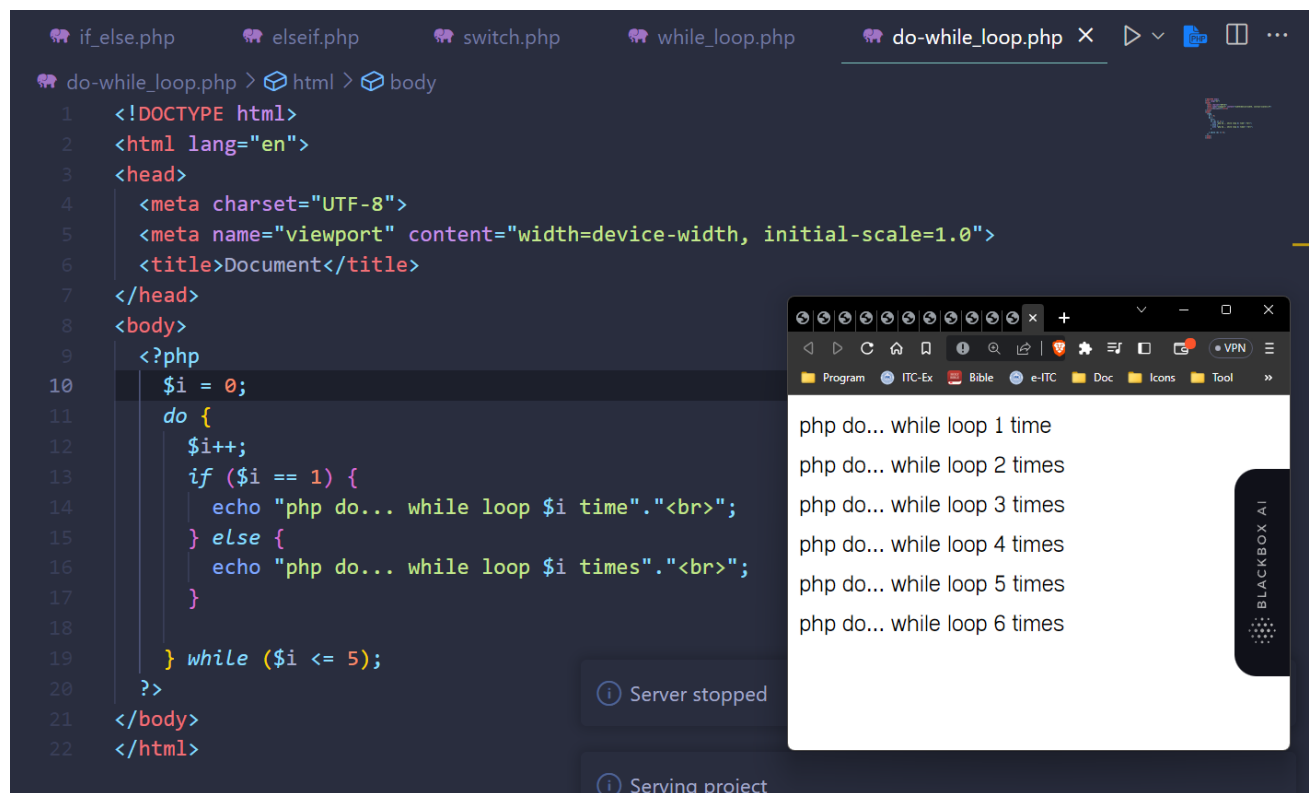


The screenshot shows a code editor with a file named `while_loop.php`. The code is an HTML document with a PHP script that uses a `while` loop to print "Hello while" followed by the current value of `$i` (from 1 to 5) and "time" or "times". The browser output shows the result of the script.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     $i = 1;
11     while ($i <= 5) {
12       if ($i == 1) {
13         echo "Hello while $i time" . "<br>";
14       } else {
15         echo "Hello while $i times" . "<br>";
16       }
17       $i++;
18     }
19   ?>
20 </body>
21 </html>
```

Server stopped
Serving project

Hello while 1 time
Hello while 2 times
Hello while 3 times
Hello while 4 times
Hello while 5 times

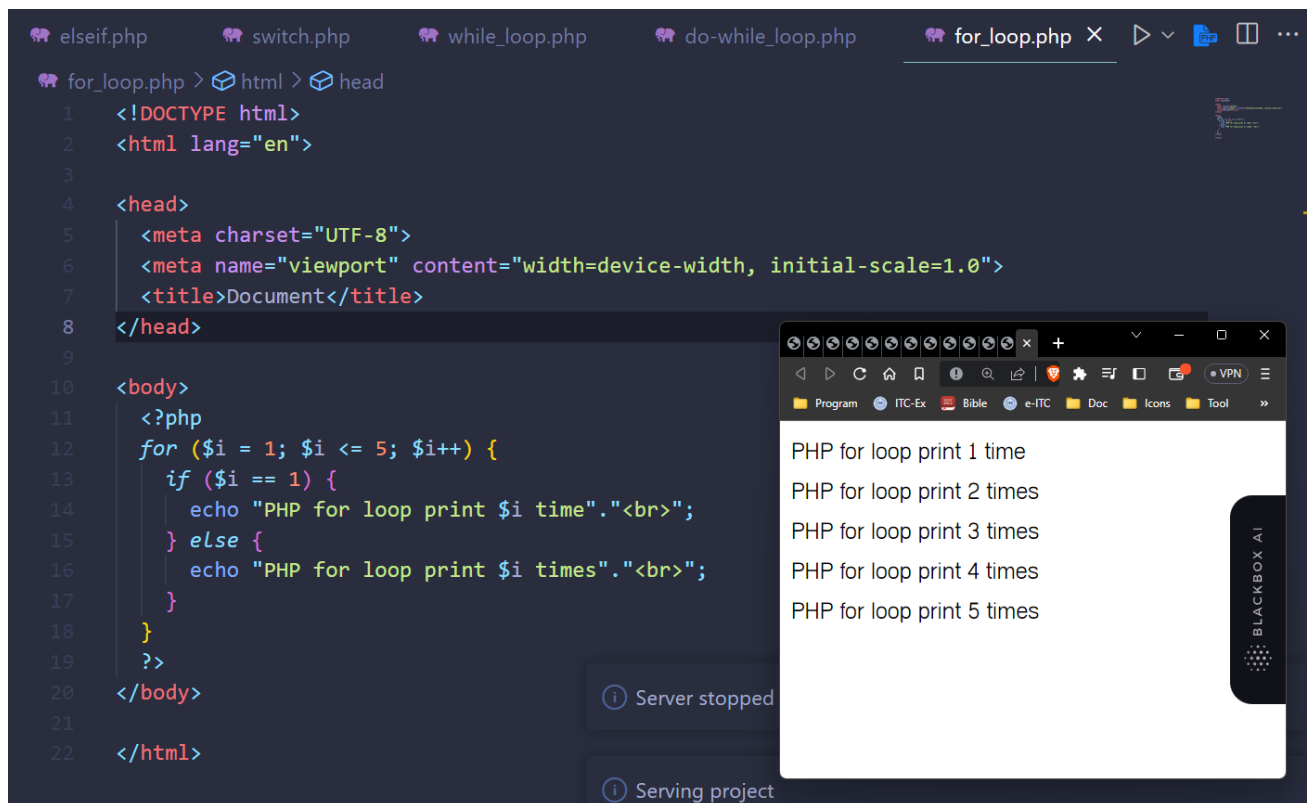


The screenshot shows a code editor with a file named `do-while_loop.php`. The code is an HTML document with a PHP script that uses a `do-while` loop to print "php do... while loop" followed by the current value of `$i` (from 1 to 6) and "time" or "times". The browser output shows the result of the script.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     $i = 0;
11     do {
12       $i++;
13       if ($i == 1) {
14         echo "php do... while loop $i time" . "<br>";
15       } else {
16         echo "php do... while loop $i times" . "<br>";
17       }
18     } while ($i <= 5);
19   ?>
20 </body>
21 </html>
```

Server stopped
Serving project

php do... while loop 1 time
php do... while loop 2 times
php do... while loop 3 times
php do... while loop 4 times
php do... while loop 5 times
php do... while loop 6 times

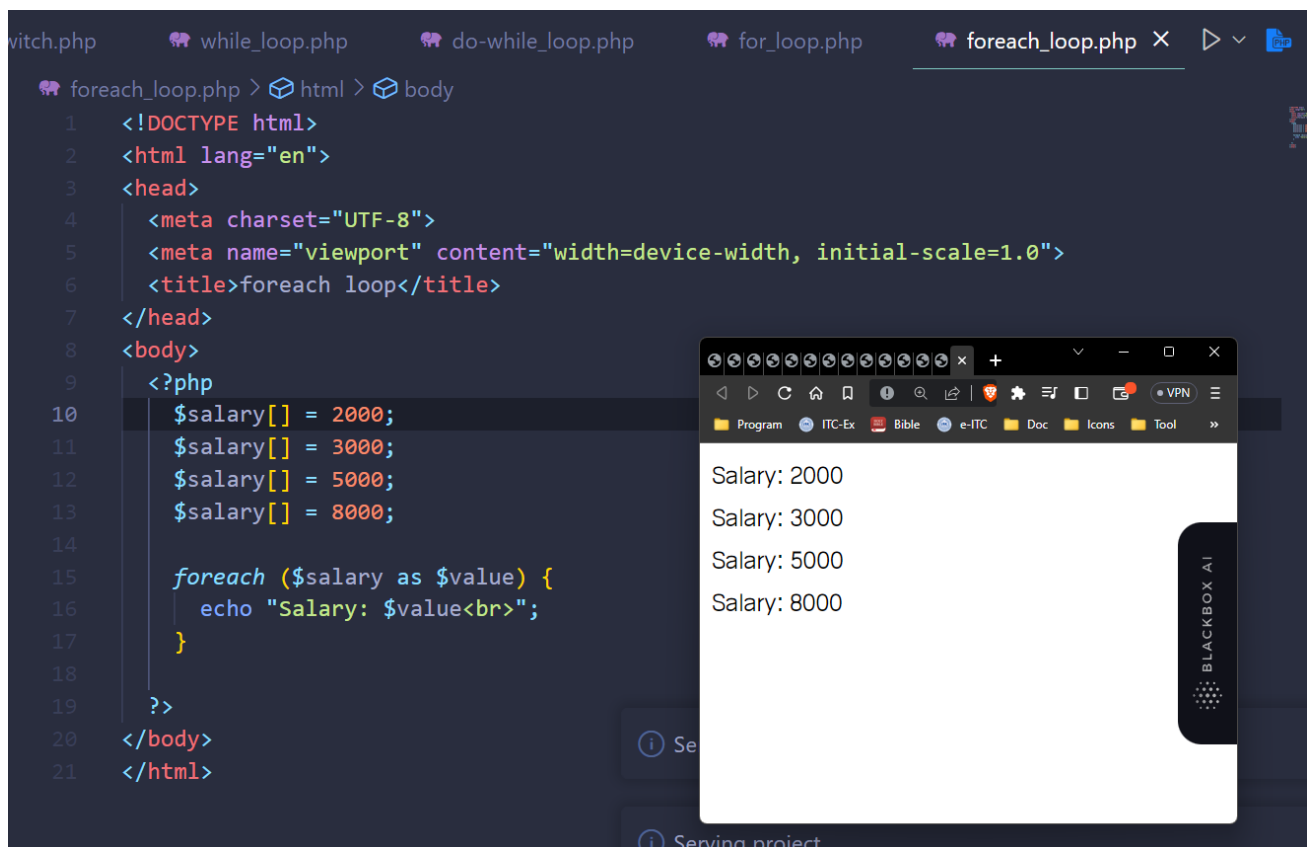


The screenshot shows a code editor with a file named `for_loop.php` open. The code is an HTML document with a PHP script that uses a `for` loop to print the number of times it has executed. The browser output shows the results of the loop.

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9
10 <body>
11   <?php
12     for ($i = 1; $i <= 5; $i++) {
13       if ($i == 1) {
14         echo "PHP for loop print $i time."<br>";
15       } else {
16         echo "PHP for loop print $i times."<br>";
17       }
18     }
19   ?>
20 </body>
21
22 </html>
```

Server stopped
Serving project

PHP for loop print 1 time
PHP for loop print 2 times
PHP for loop print 3 times
PHP for loop print 4 times
PHP for loop print 5 times

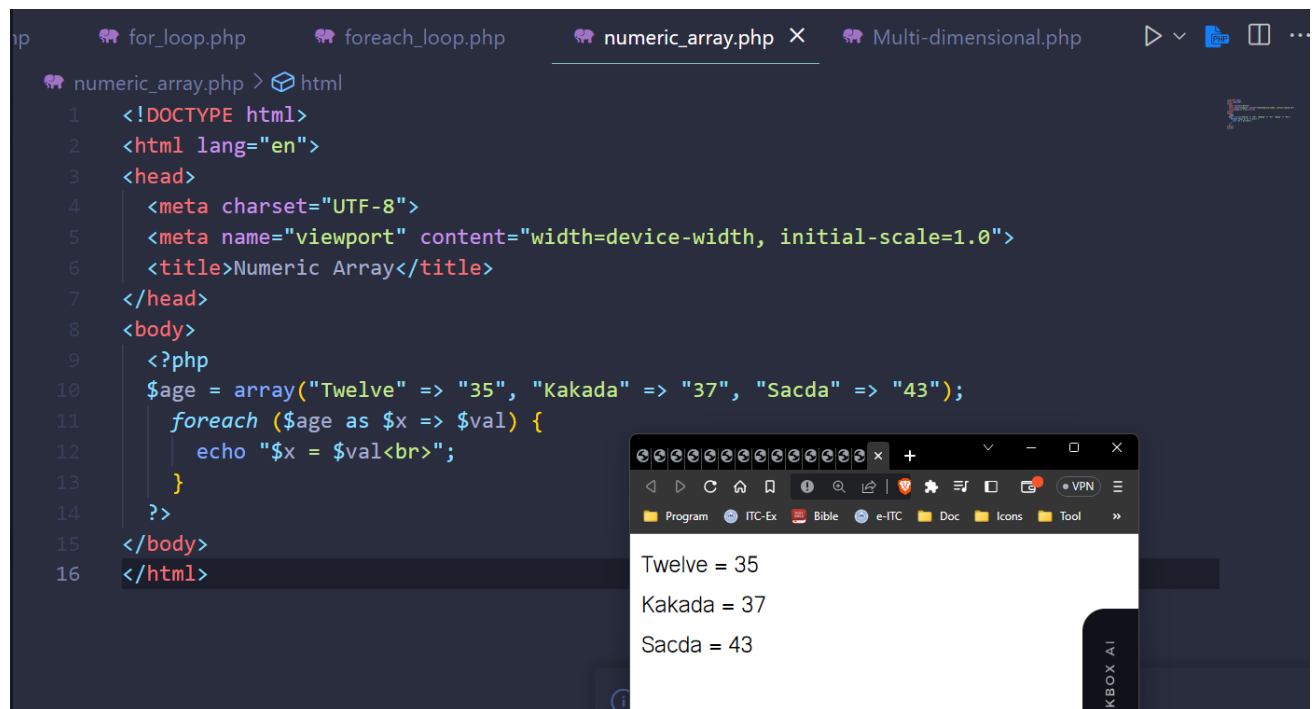


The screenshot shows a code editor with a file named `foreach_loop.php` open. The code is an HTML document with a PHP script that uses a `foreach` loop to iterate over an array of salaries and print each value. The browser output shows the results of the loop.

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>foreach loop</title>
8 </head>
9 <body>
10   <?php
11     $salary[] = 2000;
12     $salary[] = 3000;
13     $salary[] = 5000;
14     $salary[] = 8000;
15
16     foreach ($salary as $value) {
17       echo "Salary: $value<br>";
18     }
19   ?>
20 </body>
21 </html>
```

Server stopped
Serving project

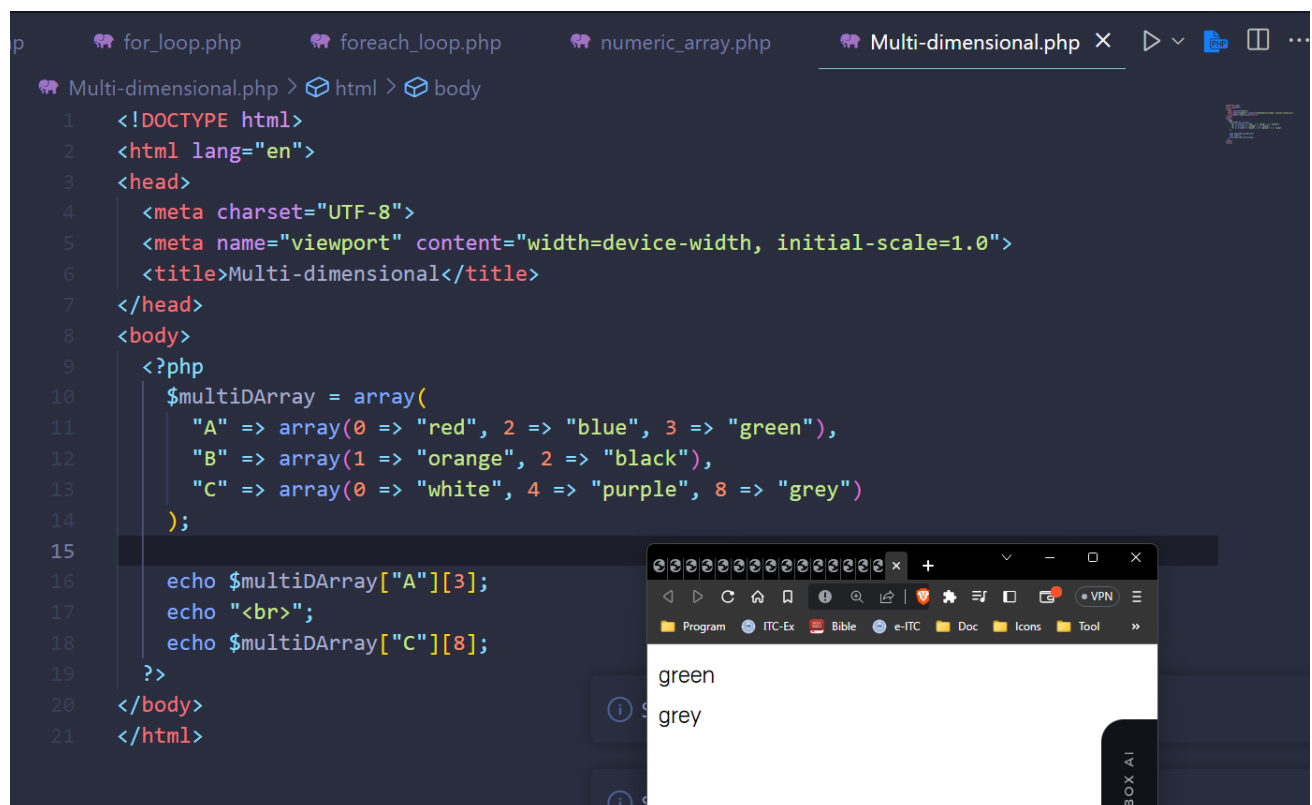
Salary: 2000
Salary: 3000
Salary: 5000
Salary: 8000



The screenshot shows a code editor with a file named `numeric_array.php`. The code is an HTML document with a PHP script that creates an associative array and iterates over it using a `foreach` loop. The browser output shows the values of the array elements.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Numeric Array</title>
7 </head>
8 <body>
9   <?php
10    $age = array("Twelve" => "35", "Kakada" => "37", "Sacda" => "43");
11    foreach ($age as $x => $val) {
12      echo "$x = $val<br>";
13    }
14  ?>
15 </body>
16 </html>
```

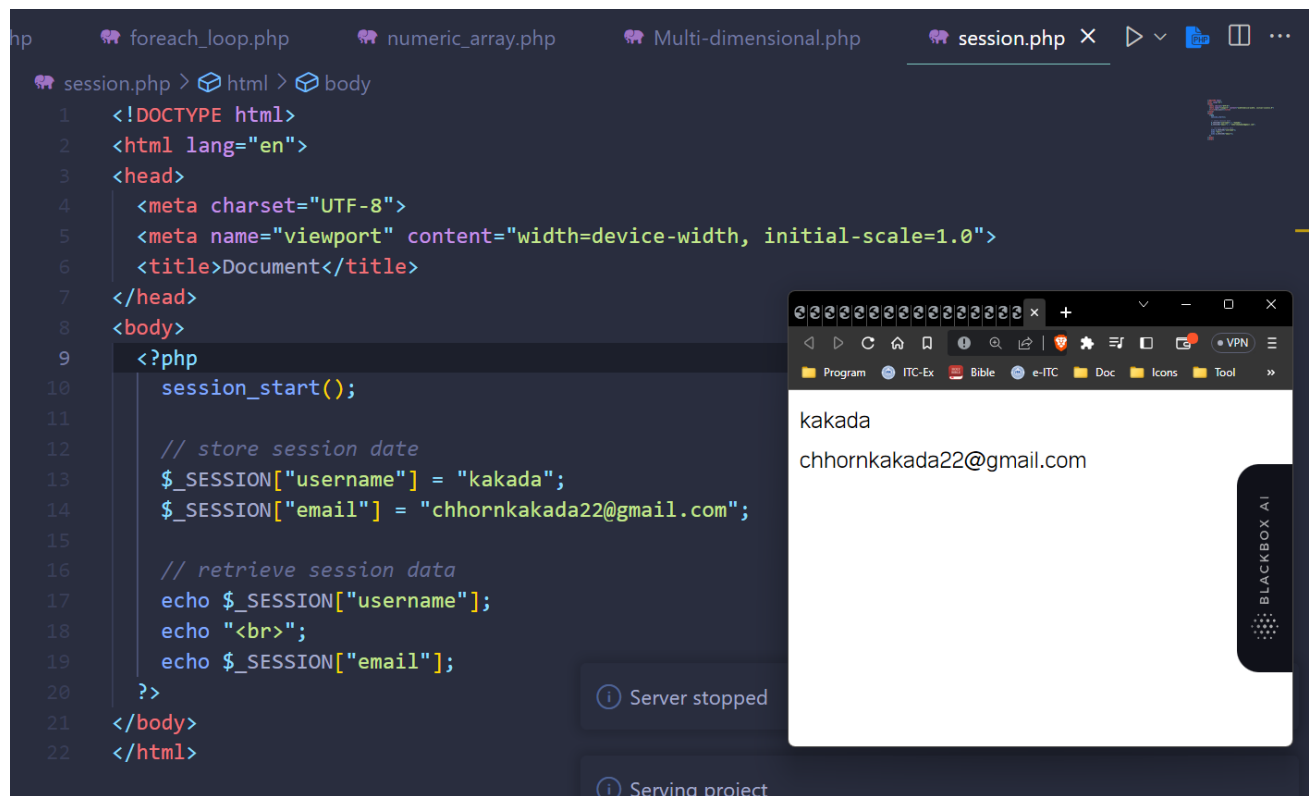
Twelve = 35
Kakada = 37
Sacda = 43



The screenshot shows a code editor with a file named `Multi-dimensional.php`. The code is an HTML document with a PHP script that creates a multi-dimensional array and echoes specific elements. The browser output shows the values of the array elements.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Multi-dimensional</title>
7 </head>
8 <body>
9   <?php
10    $multiDArray = array(
11      "A" => array(0 => "red", 2 => "blue", 3 => "green"),
12      "B" => array(1 => "orange", 2 => "black"),
13      "C" => array(0 => "white", 4 => "purple", 8 => "grey")
14    );
15
16    echo $multiDArray["A"][3];
17    echo "<br>";
18    echo $multiDArray["C"][8];
19  ?>
20 </body>
21 </html>
```

green
grey



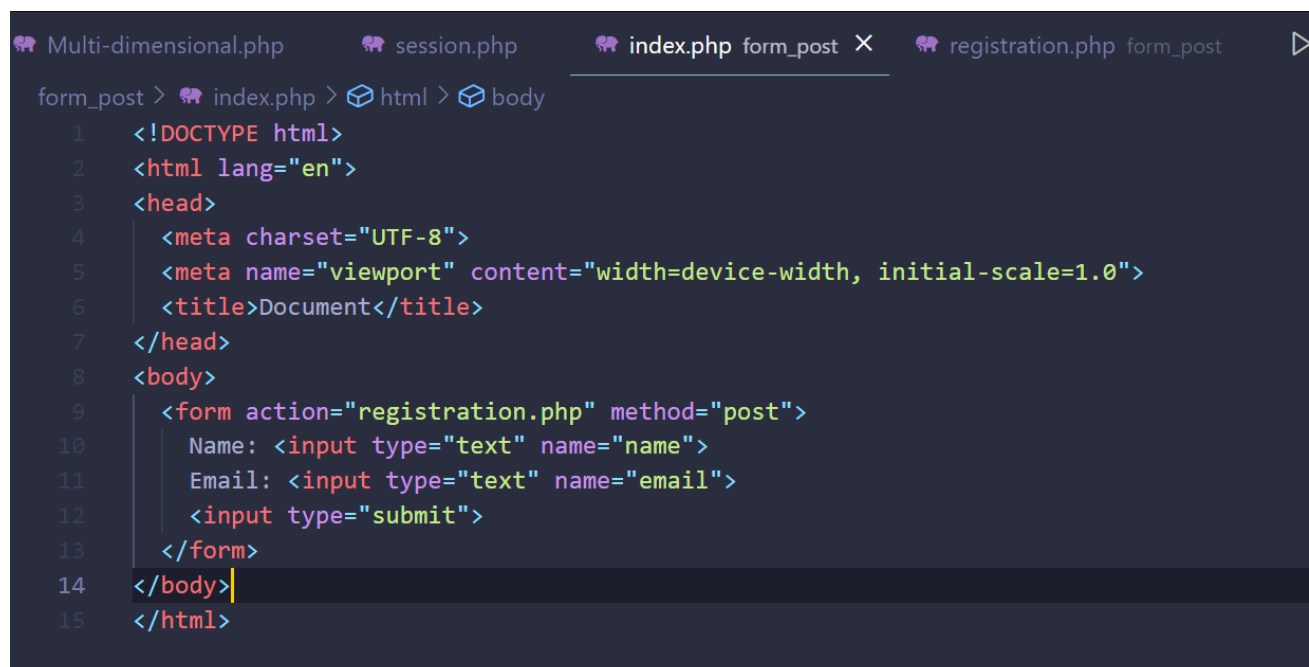
The screenshot shows a code editor with a file explorer on the left. The active file is `session.php`. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     session_start();
11
12     // store session date
13     $_SESSION["username"] = "kakada";
14     $_SESSION["email"] = "chhornkakada22@gmail.com";
15
16     // retrieve session data
17     echo $_SESSION["username"];
18     echo "<br>";
19     echo $_SESSION["email"];
20   ?>
21 </body>
22 </html>
```

Below the code editor, there is a "Server stopped" button and a "Serving project" button. To the right, a browser window is open, displaying the output of the PHP script:

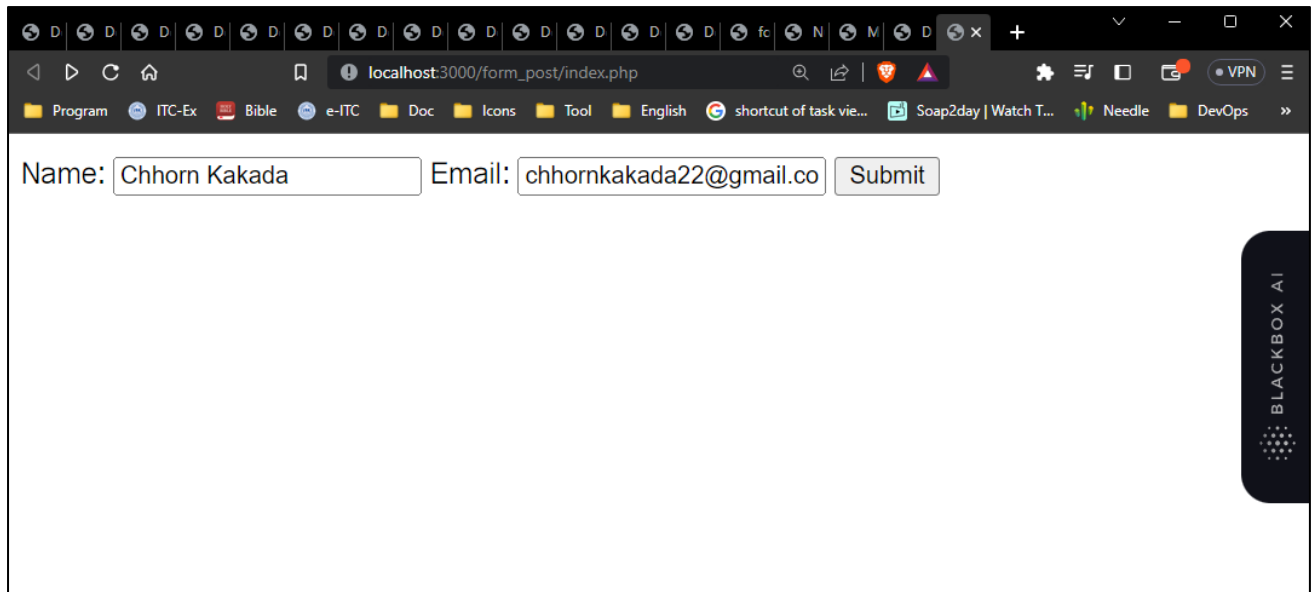
```
kakada
chhornkakada22@gmail.com
```

Form POST



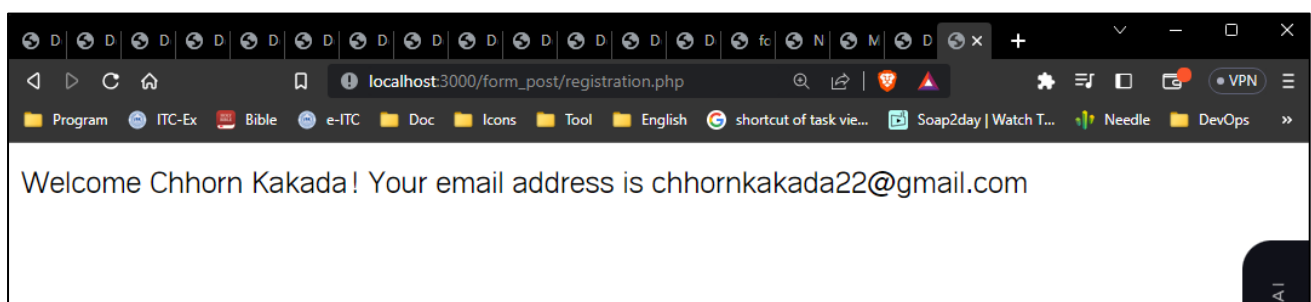
The screenshot shows a code editor with a file explorer on the left. The active file is `index.php`. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <form action="registration.php" method="post">
10     Name: <input type="text" name="name">
11     Email: <input type="text" name="email">
12     <input type="submit">
13   </form>
14 </body>
15 </html>
```



Name: Email:

```
Multi-dimensional.php  session.php  index.php form_post  registration.php form_post >
form_post > registration.php > html > head
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5    <meta charset="UTF-8">
6    <meta name="viewport" content="width=device-width, initial-scale=1.0">
7    <title>Document</title>
8  </head>
9
10 <body>
11   Welcome <?php echo $_POST["name"]; ?>!
12   Your email address is <?php echo $_POST["email"]; ?>
13 </body>
14
15 </html>
```



Welcome Chhorn Kakada! Your email address is chhornkakada22@gmail.com

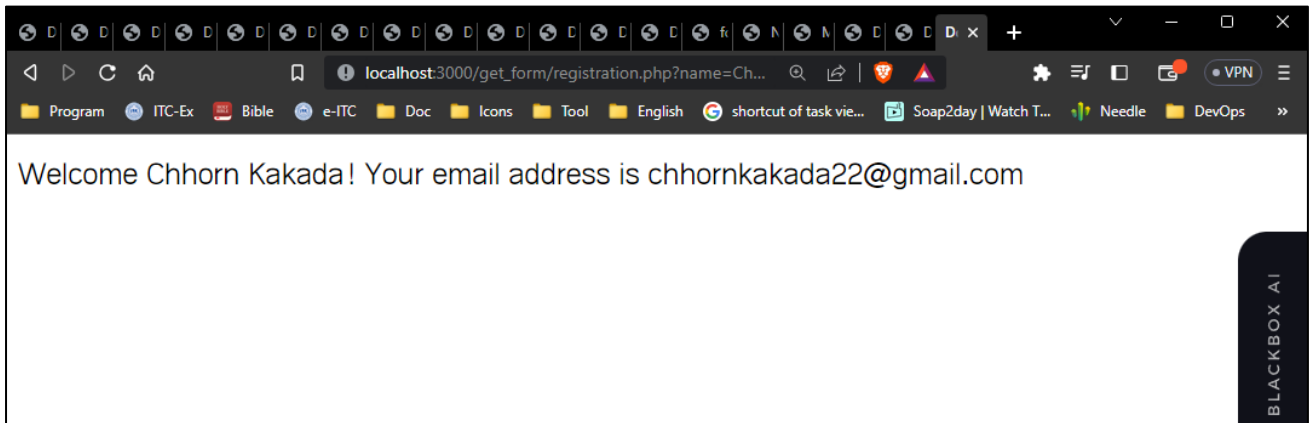
Form GET

```
index.php get_form X index.php file_upload index.php validation_form registration.php file_upload
get_form > index.php > html > head > title
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <form action="registration.php" method="get">
10     Name: <input type="text" name="name">
11     Email: <input type="text" name="email">
12     <input type="submit">
13   </form>
14 </body>
15 </html>
```

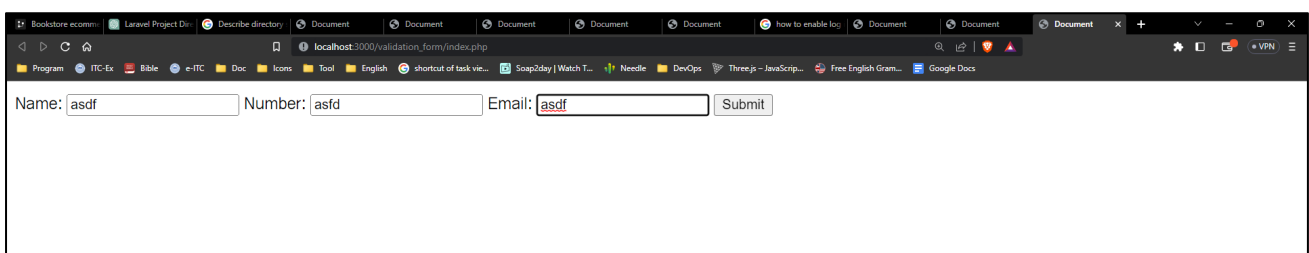
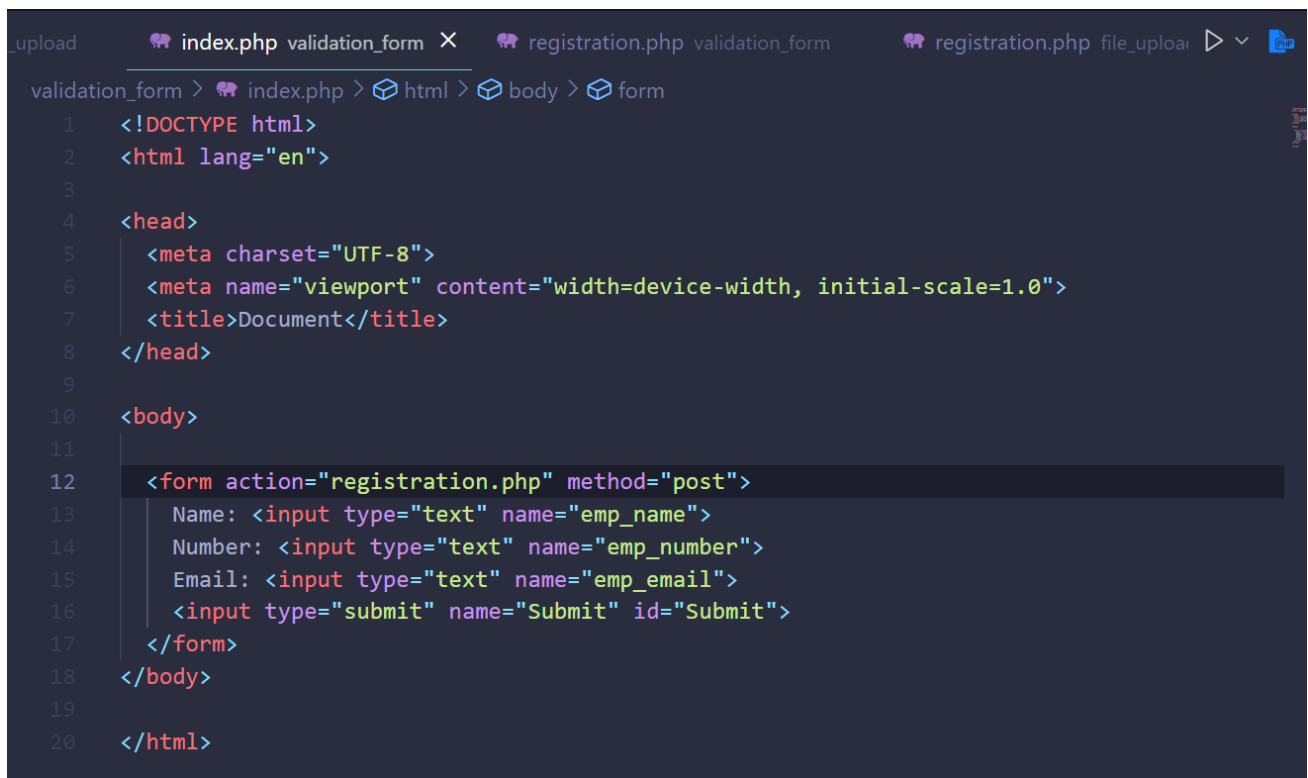
localhost:3000/get_form/index.php

Name: Email:

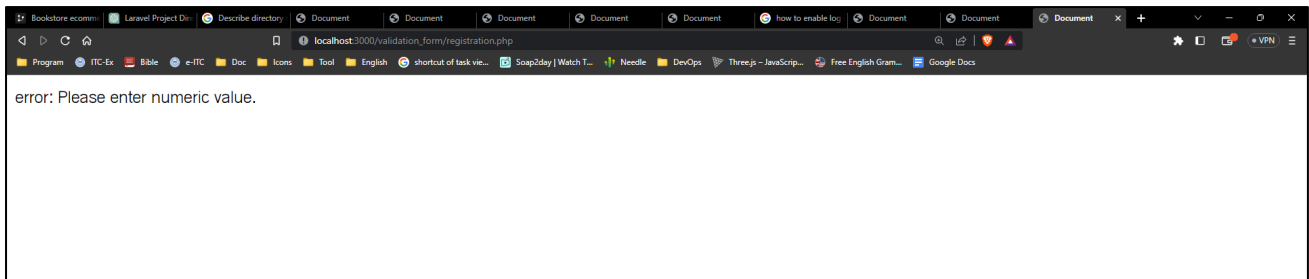
```
file_upload index.php validation_form registration.php file_upload registration.php get_form X
get_form > registration.php > html > body
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   Welcome <?php echo $_GET["name"]; ?>!
10   Your email address is <?php echo $_GET["email"]?>
11 </body>
12 </html>
```



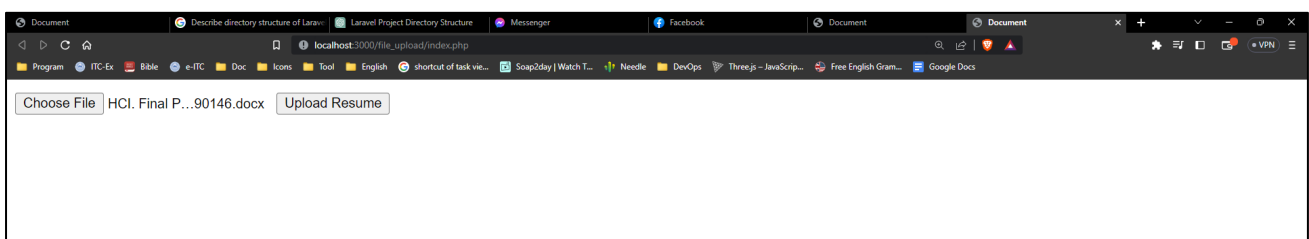
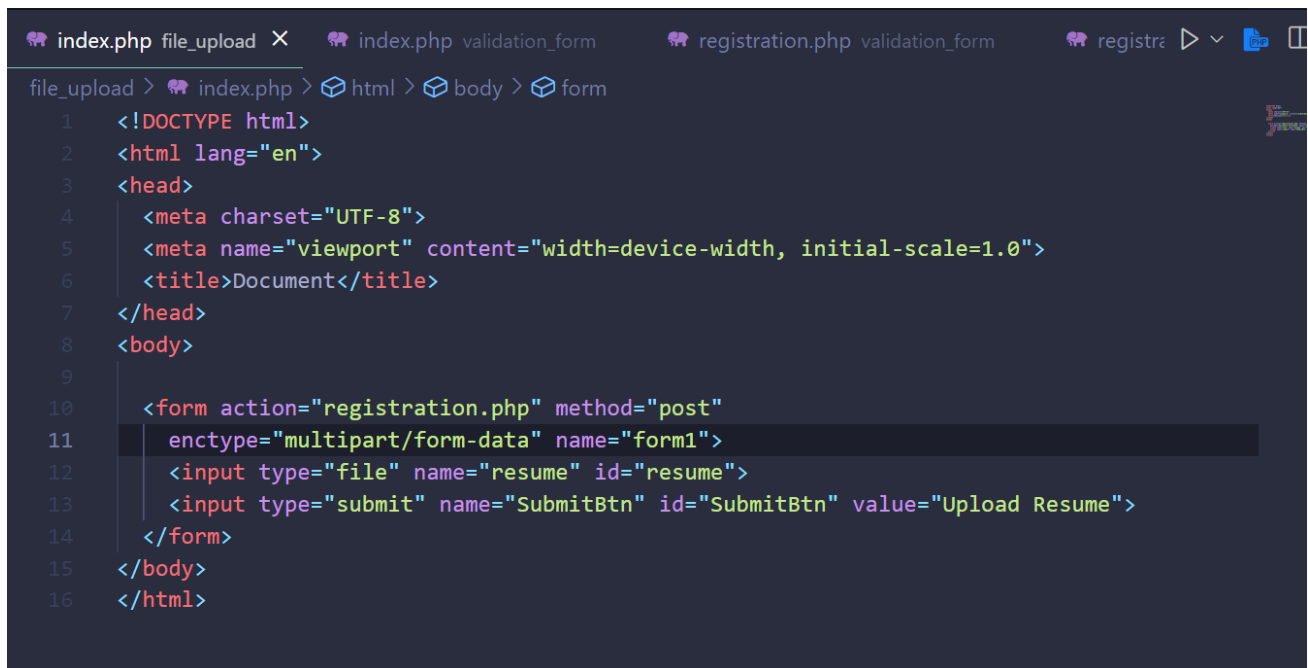
Validation form



```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9
10 <body>
11   <?php
12     if (isset($_POST["Submit"])) {
13       $emp_name = trim($_POST["emp_name"]);
14       $emp_number = trim($_POST["emp_number"]);
15       $emp_email = trim($_POST["emp_email"]);
16
17       if ($emp_name == "") {
18         $errorMsg = "error: You did not enter a name.";
19         $code = "1";
20       } elseif ($emp_number == "") {
21         $errorMsg = "error: Please enter number.";
22         $code = "2";
23       }
24
25       // check if the number field is numeric
26       elseif (is_numeric(trim($emp_number)) == false) {
27         $errorMsg = "error: Please enter numeric value.";
28         $code = "2";
29       } elseif (strlen($emp_number) < 10) {
30         $errorMsg = "error: Number should be ten digits.";
31         $code = "2";
32       }
33
34       // check if email field is empty
35       elseif ($emp_email == "") {
36         $errorMsg = "error: You did not enter a email.";
37         $code = "3";
38       }
39
40       // check for valid email
41       elseif (!preg_match("/^[_\.0-9a-zA-Z-]+@([0-9a-zA-Z-]+\.)+[a-zA-Z]{2,6}$/i", $emp_email)) {
42         $errorMsg = "error: You did not enter a valid email.";
43         $code = "3";
44       } else {
45         echo "Success";
46       }
47     } else {
48       echo "Not found!";
49     }
50   ?>
51 </body>
52
53 </html>
```



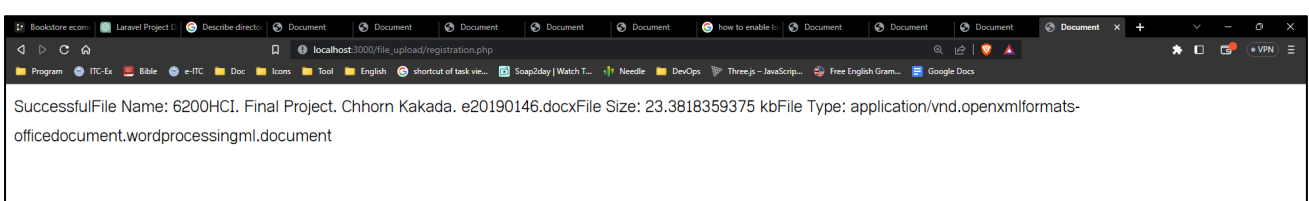
Upload-file form



```

1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8  </head>
9
10 <body>
11     <?php
12         // echo var_dump($_FILES);
13         if (isset($_POST["SubmitBtn"])) {
14
15             $fileName = $_FILES["resume"]["name"];
16             $fileSize = $_FILES["resume"]["size"] / 1024;
17             $fileType = $_FILES["resume"]["type"];
18             $fileTmpName = $_FILES["resume"]["tmp_name"];
19
20             if (
21                 $fileType == "application/msword"
22                 || $fileType == "application/vnd.openxmlformats-officedocument.wordprocessingml.document"
23             ) {
24                 if ($fileSize <= 200) {
25
26                     // New file name
27                     $random = rand(1111, 9999);
28                     $newFileName = $random . $fileName;
29
30                     // File upload path
31                     $uploadPath = "testUpload/" . $newFileName;
32
33                     // function for upload file
34                     if (move_uploaded_file($fileTmpName, $uploadPath)) {
35                         echo "Successful";
36                         echo "File Name: " . $newFileName;
37                         echo "File Size: " . $fileSize . " kb";
38                         echo "File Type: " . $fileType;
39                     }
40                 } else {
41                     echo "Maximun upload file size limit is 200 kb";
42                 }
43             } else {
44                 echo "You can only upload a Word doc file.";
45             }
46         }
47     ?>
48 </body>
49
50 </html>

```





Download and Installing composer

```
C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.22000.2057]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>composer

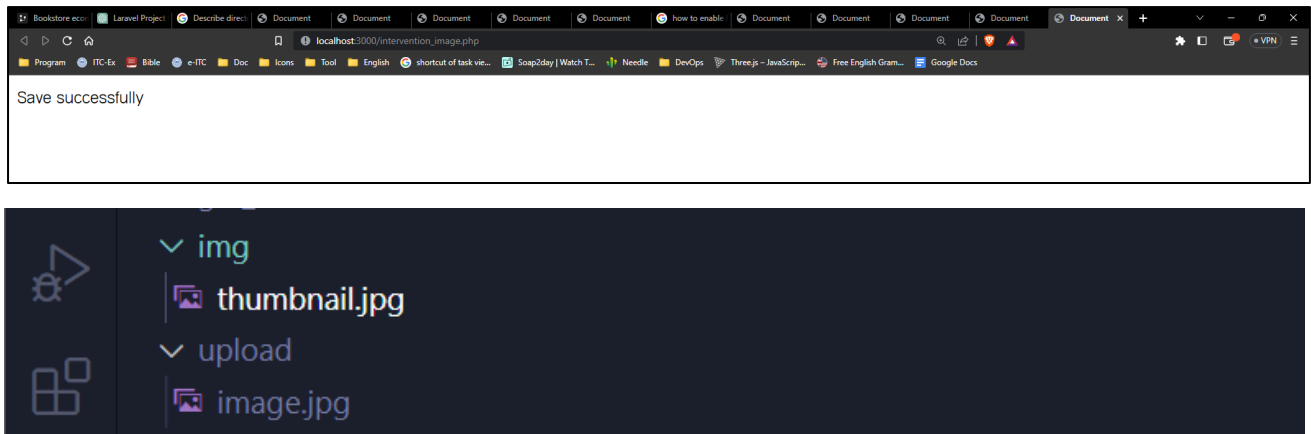
Composer version 2.5.8 2023-06-09 17:13:21

Usage:
  command [options] [arguments]

Options:
  -h, --help                Display help for the given command. When no command is given display help for the list
                             command
  -q, --quiet               Do not output any message
  -V, --version             Display this application version
                             --ansi|--no-ansi Force (or disable --no-ansi) ANSI output
  -n, --no-interaction      Do not ask any interactive question
                             --profile      Display timing and memory usage information
                             --no-plugins  Whether to disable plugins.
```

PHP Composer

```
intervention_image.php x {} composer.json if_else.php elseif.php switch.php while_loop.php do
intervention_image.php > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <?php
10     // include composer autoload
11     require "vendor/autoload.php";
12
13     // import the Intervention image manager class file
14     use Intervention\Image\ImageManagerStatic as Image;
15
16     $Image = Image::make("upload/image.jpg")->resize(200, 200)->save("img/thumbnail.jpg", 100);
17   ?>
18 </body>
19 </html>
```

Describe directory structure of Laravel project

app - most imp folder

console

kernel.php - any commands you can make

exception

handler.php - you can make handler, we can define error as a handler but as a beginner no need.

Http

controllers - default controller.php file has base controller

middleware - work as guards, if we can give access to them or not.

Kernel.php : middleware can use them. every path are declared them.

Models:

User.php: default model

providers: it will provides all services

bootstrap: laravel application speed up using this.

app.php: all apps are them

config: every configuration are there. mail, hash, authentication any you want.

database:

migrations: handle database table

factories: helps to create fake database

seeder: helps to create fake data

public

.htaccess: here htaccess file that is used to allow URLs without index. php, be sure to enable the mod_rewrite module.

robots.txt - used for search engine optimization.

URL: http://127.0.0.1:8000/public/ -after run index.php default.

resources

css, js - you can put here.

lang - here you can put your language here, because laravel is multi-language. default english

views - blade files here default-welcome.blade.php

routes:

web.php - handle website routes

api.php - handles api routes

channels.php - used for broadcasting

services- handles website services

storage- handles storage like downloadable file or uploaded file like resume etc.

tests

Unit- you can write here test cases.

vendor- all kinds of packages are here, payment integration or login with google.

.env - we can setup environment, connection, database.

composer.json - packages details and versions are showed there.

server.php - it will help to execute the app.

Setup your first Laravel project to say “Hello world”

